

# 2003 Watershed Protection Plan Update for the Wachusett Reservoir Watershed



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## **ABSTRACT**

The Department of Conservation and Recreation, Division of Water Supply Protection, Bureau of Watershed Management (and its predecessor, the Metropolitan District Commission, Division of Watershed Management) has been aggressively implementing and expanding its watershed programs in the Wachusett Reservoir watershed since the initial Watershed Protection Plan was published in 1991. The *2003 Watershed Protection Plan Update for the Wachusett Reservoir Watershed* continues this trend of identifying key issues and setting priorities for the DCR Bureau of Watershed Management. This Plan Update:

- Documents the recommendations of the 1998 Wachusett Reservoir Watershed Protection Plan Update that have been completed.
- Incorporates increased knowledge of the watershed and water quality.
- Assesses the current "state of the watershed."
- Formally states goals and five-year objectives for each program area.
- Establishes a schedule of activities for the next five years.

### Acknowledgements:

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All maps were produced by DCR/DWSP Bureau of Watershed Management GIS staff Craig Fitzgerald and Paul Penner, using BWM and MassGIS data.

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# Acronyms

The following are acronyms used in this report.

APA	American Planning Association, the primary professional planners' organization	DEM	The former Massachusetts Department of Environmental Management (currently Department of Conservation and Recreation, Division of State Parks and Recreation)
AST	Above-ground storage tanks	DEP	Massachusetts Department of Environmental Protection
ATV	All-terrain vehicles	DFA	The former Massachusetts Department of Food and Agriculture
AWWA	American Water Works Association, a professional water suppliers' organization	DOC	Dissolved Organic Carbon
BMP	Best Management Practices, including source and treatment controls on non-point source pollution	DOR	Massachusetts Department of Revenue
BOH	Board of Health, a board of local governments	DPW	Department of Public Works, part of town and city governments
BWM	Bureau of Watershed Management within the DCR Division of Water Supply Protection, the section responsible for the watershed system (formerly MDC/DWM)	DSPR	Division of State Parks and Recreation, a Division of DCR
CCR	Consumer Confidence Report	DUPR	Division of Urban Parks and Recreation, a Division of DCR
CDM	Camp Dresser & McKee Inc., an engineering consulting firm	DWM	Formerly the Division of Watershed Management, the Division of the MDC that was responsible for watersheds
CE	Civil Engineering, a section of the Bureau of Watershed Management	DWS	Division of Water Supply, a Division of DEP
CEI	Comprehensive Environmental Inc., an environmental consulting firm	DWSP	Division of Water Supply Protection, a Division of DCR
CFI	Continuous Forest Inventory	EAP	Emergency Action Plan
CFR	Code of Federal Regulations	EOEA	Executive Office of Environmental Affairs
CFU	Colony forming units	EPO	Environmental Police Office
Ch. 61	Chapter 61, part of the Massachusetts law that addresses taxes for forest and agricultural land	EP	Environmental Planning, a section of the Bureau of Watershed Management
CMP	Conservation Management Practices	EPA	Environmental Protection Agency
CMR	Code of Massachusetts Regulations	EQ	Environmental Quality, a section of the Bureau of Watershed Management
CR	Conservation Restriction	EEQA	Environmental Quality Assessments
CVA	Chicopee Valley Aqueduct	ERP	Emergency Response Plan
DAR	Department of Agricultural Resources (formerly DFA)	FEMA	Federal Emergency Management Agency
DBP	Disinfection By-products	FERC	Federal Energy Regulatory Commission
DCR	Massachusetts Department of Conservation and Recreation	FTE	Full-time employee
		FY	Fiscal Year
		GIS	Geographic Information Systems

HAA	Haloacetic acid	O&M ORV	Operations and Maintenance Off-road Vehicle
I/I	Infiltration and Inflow		
ICR	Information Collection Rule	PILOT	Payments in Lieu of Taxes
ICS	Incident Command System	PPB	Parts per billion
IESWTR	Interim Enhanced Surface Water Treatment Rule		
LT2	Long Term 2 Enhanced Surface Water Treatment Rule	QWAC	Quabbin Watershed Advisory Committee
MADWEP	Massachusetts Drinking Water Education Partnership	RIZZO	Rizzo Associates, an engineering consulting firm
MASSGIS	A division of EOEA that manages state GIS data	ROW	Rights of Way
MCL	Maximum Contaminant Level	RUSS	Remote Underwater Sampling Stations
MDC	The former Metropolitan District Commission	SEA	Scientists/Engineers/Architects Consulting Inc., an engineering consulting firm
MDPH	Massachusetts Department of Public Health	SDWA	Safe Drinking Water Act
MEMA	Massachusetts Environmental Management Agency	SOP	Standard Operating Procedure
MEPA	Massachusetts Environmental Policy Act Unit	SWAP	Source Water Assessment Program
MGD	million gallons per day	SWTR	Surface Water Treatment Rule
MGL	Massachusetts General Laws	THM	Trihalomethane
MHD	Massachusetts Highway Department		
MOU(A)	Memorandum of Understanding (Agreement)	USDA	U.S. Department of Agriculture
MSP	Massachusetts State Police	USFWS	US Fish and Wildlife Service
MWRA	Massachusetts Water Resources Authority	USGS	United States Geological Survey
		UST	Underground Storage Tank
NALMS	North American Lakes Management Society	VMP	Vegetation Management Plan
NPDES	National Pollutant Discharge Elimination System	WAC	Watershed Advisory Committee
NR	Natural Resources, a section of the Bureau of Watershed Management	WET	Water Education for Teachers
NRCS	Natural Resources Conservation Service, a federal agency under the USDA	WPP	Watershed Protection Plan
		WREEN	Worcester Regional Environmental Educator's Network
		WSCAC	Water Supply Citizens Advisory Committee
		WsPA	Watershed Protection Act
		YOP	Yearly Operating Plan